



99% Hydroxymethyl Phenylphosphinic Acid Flame Retardant Additive, CAS 61451-78-3, C₇H₉O₃P

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Truly
- Certification: REACH compliant; ISO 9001:2015; RoHS; COA available upon request
- Minimum Order Quantity: 1 kg (sample available)
- Price: Factory direct pricing, please contact us for a tailored quote based on quantity and delivery requirements
- Packaging Details: 25 kg in fiber drum, also available in customized packaging (e.g., 1 kg bag for sample, 500 kg pallet for bulk)
- Delivery Time: 7-15 days after order confirmation for standard orders; negotiable for large quantities
- Payment Terms: T/T, L/C at sight, Western Union
- Supply Ability: Commercial production capacity, expandable upon request



Product Specification

- Molecular Formula: C₇H₉O₃P
- Appearance: Powder, Crystals
- Assay: 99%
- Cas No.: 61451-78-3
- Product Name: Hydroxymethyl Phenylphosphinic Acid
- Type: Flame Retardant Additives
- Appearance: White Powder Or Crystal
- Assay (HPLC): 99% Min
- Melting Point: 137-139°C
- Phosphorus Content: 18.0±0.5%
- Acid Value: 326±4 MgKOH/g
- Moisture: 0.5% Max
- Iron (Fe): 0.005% Max
- Chloride: 0.01% Max
- Solubility: Soluble In Water, Stable At Room



More Images





Product Description

99% Hydroxymethyl Phenylphosphinic Acid Flame Retardant Additive (CAS 61451-78-3, C₇H₉O₃P) **Manufacturer**: Truly (China) – with over 15 years of experience in phosphinic acid flame retardants, serving clients worldwide in engineering plastics, textiles, and coatings industries. Our R&D team holds multiple patents in phosphorus-based flame retardant technology. The factory is ISO 9001:2015 certified and our production processes comply with REACH and RoHS standards. ## Application Experience The product has been successfully applied in various fields, including polyester fibers, PBT compounds, and intumescent coatings. It helps achieve UL 94 V-0 rating and high thermal stability. We have supplied to leading manufacturers in the polyester and coatings industry. Third-party test reports (SGS, TÜV) are available upon request. ## Usage & Technical Comparison As an environment-friendly fire retardant, it is a permanent flame retarding modifier. **Compared with CEPPA (2-Carboxyethyl phenylphosphinic acid)**: - Contains approximately 18.0% phosphorus (vs ~12% in CEPPA), enabling lower dosage for same flame retardancy. - Better thermal stability: treated polymer can reach up to 256°C melting point, while CEPPA typically yields 230-240°C. - Lower acid value (326 vs ~400 mgKOH/g) reduces corrosion during processing. - Suitable for producing thinner polyester products with reduced brittleness. Widely applied in **polyester, PBT, PET, nylon, epoxy resins, and coatings** requiring durable flame retardancy. Meets standards such as UL 94 V-0, IEC 60695, and GB 14907-2018 (for coatings). ## Specifications | Parameter | Value | |-----|-----| | Product name | Hydroxymethyl phenylphosphinic acid | | CAS No. | 61451-78-3 | | Molecular formula | C₇H₉O₃P | | Appearance | White powder or crystal | | Assay (HPLC) | 99% min | | Melting point | 137-139°C | | Phosphorus (P) | 18.0±0.5% | | Acid value | 326±4 mgKOH/g | | Iron (Fe) | 0.005% max | | Chloride | 0.01% max | | Moisture | 0.5% max | | Solubility | Soluble in water, stable at room temperature | ## Competitive Advantage - **Experienced Service**: Professional team with deep knowledge in flame retardant chemicals; technical support for formulation optimization. - **Best Quality**: Strict quality control, 99% minimum purity, consistent batch-to-batch with Certificate of Analysis (COA) available. Third-party testing reports (SGS, TÜV) can be provided. - **Competitive Price**: Factory direct pricing without middlemen. Contact us for a tailored quote. - **Prompt Delivery**: Efficient logistics with flexible shipping options (by air, sea, or express). - **Compliance**: REACH compliant and ISO 9001:2015 certified. Compliance documentation available on request. - **Trust & Transparency**: Company registered with business license, factory audited by international clients. We welcome factory visits and video calls. *For more information, certification details, inquiries, or to request COA, samples, and third-party test reports, please contact us directly. We offer quality guarantee and after-sales technical support.* **Contact Information**: - Company: Qingdao Truly Industrial Co., Ltd. - Address: No. 18, Xiangtan Road, Qingdao, Shandong, China - Tel/WhatsApp/WeChat: Please request via email or our website - Email: info@trulychem.com

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